

Morrison Planetarium

Sky Shows

Halley's Comet Update reveals the latest findings on the most famous comet of all time. Telescopes on Earth and spacecraft launched months ago are gradually uncovering the secrets of this long-awaited visitor from outer space. What is Halley's Comet? How can you best see it and when will it come again? Find the new answers and new mysteries of Halley's and other comets through April 27.

Sky shows can be seen on weekdays at 2:00 p.m. and weekends and holidays at 1:00, 2:00, 3:00 and 4:00 p.m.

Due to the popularity of the shows, members are reminded to be at the planetarium box office at least ten minutes before each performance in order to be assured of getting a seat.

Exploring the Skies of the Season offers a look at the glorious night skies over San Francisco no matter what the weather. Shows are on Saturdays and Sundays at 12 noon.

Laserium

Laserium uses a 1-watt krypton gas laser to trace intricate, multicolored patterns of light against the Planetarium's star-filled sky. A 5-watt argon laser adds dazzling beams of azure light to each show which is performed live to a variety of music ranging from classical to rock.

Crystal Odyssey is a program of classical music by Bach, Saint-Saens, Grieg, Mussorgsky and others performed against a backdrop of lyrical weaving lasers. Crystal Odyssey is presented on Saturdays and Sundays at 5:00 p.m. Tickets are \$4 for adults and \$3 for seniors and children 6-12.

Led Zeppelin: In The Beginning, featuring hits from Led Zeppelin's first four albums, is presented Thursday through Sunday at 9:00 p.m. with late shows on Friday and Saturday at 10:30 p.m.

Dark Side of the Moon is a memorable laser light show set to the music of the incomparable Pink Floyd. Shows are Friday, Saturday and Sunday at 7:30 p.m.

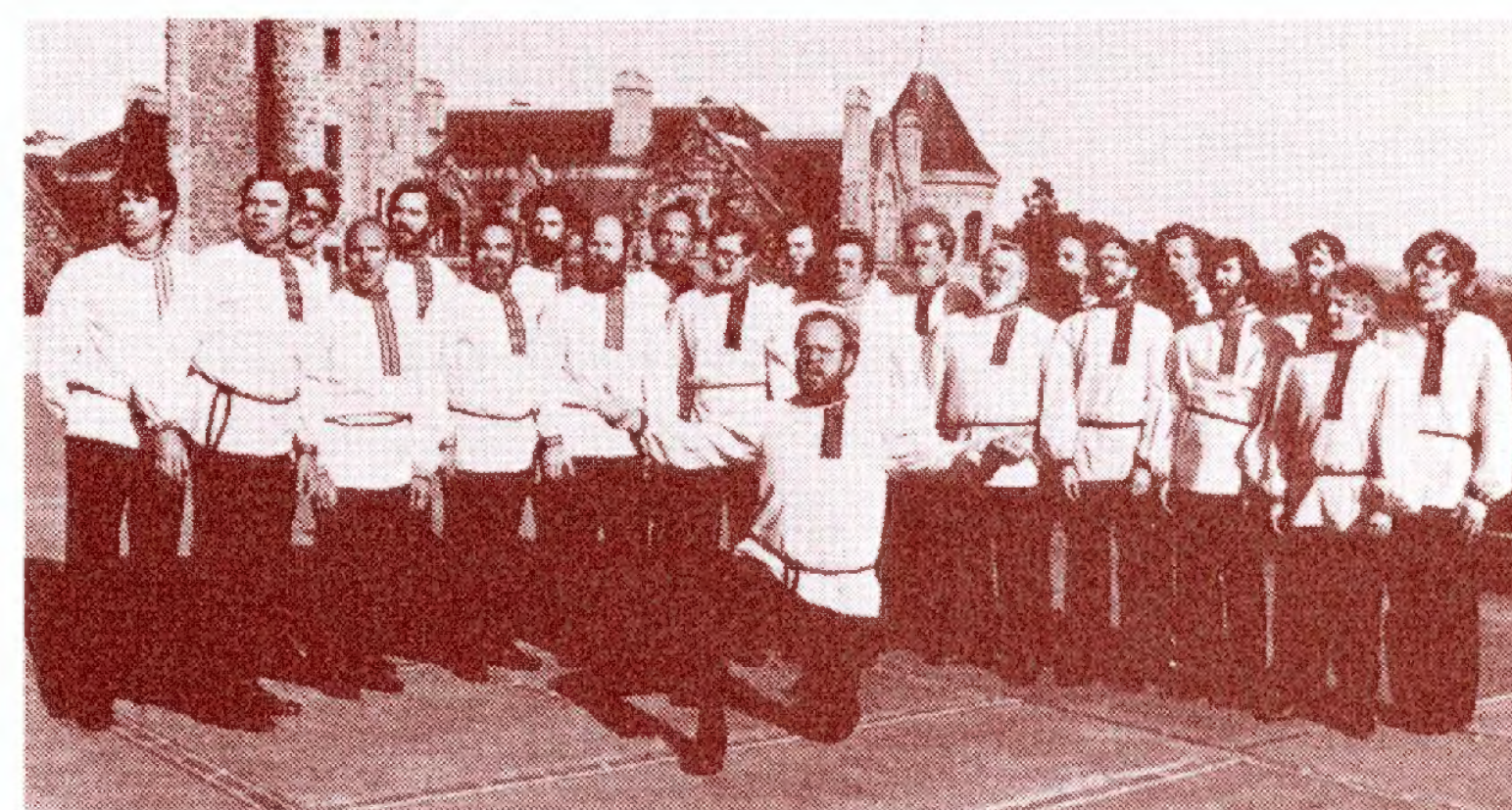
Tickets for Led Zeppelin and Dark Side of the Moon are \$5 for adults and \$3 for seniors and children 6-12. Children under 6 are not admitted to Laserium shows. There are discount prices for groups of ten or more. Members are reminded that their complimentary planetarium passes are not valid for Laserium shows. Tickets are available one-half hour before showtime at the planetarium box office.

You can bring your own FM Walkman type radio to all Laserium concerts and choose your own listening volume.

Show titles are subject to change without notice. For recorded Laserium information call (415) 750-7138.

Planetarium Concert Series

The Morrison Planetarium's Spring Concert Series offers programs by acclaimed musicians presented under the starry skies of the planetarium's 65 foot dome.



Slavyanka
February 18

8:00 p.m.

Slavyanka, a men's Slavic chorus, performs the music of Russia, the Ukraine, Armenia, Georgia and Macedonia in the exuberant style of the Red Army Chorus. Organized in 1979, this group has brought overflow audience's to their feet with rousing renditions of folk songs, marches, gypsy airs and selections from Russian Orthodox liturgy.

Other concerts in the series include:

Kevin Carr and Todd Denman - March 18
Irish music

Platero - April 22
Sandy Smith and Jack Montgomery playing Peruvian harp

Blue Flame Stringband - May 13

Cajun music

Tickets are \$4 for members and \$6 for non-members for each performance. Tickets for the series are \$15 for members and \$25 for non-members. To make reservations please send a check payable to the California Academy of Sciences and a self-addressed, stamped envelope to Planetarium Concert Series, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118. For information call (415) 750-7127.

Special Lectures

Diet and Human Evolution: From Foraging to Fast Foods

Sunday, February 9 9:30 a.m.-5:00 p.m.
Zellerbach Hall, U.C. Berkeley

This symposium on the links between our ancient ancestors and our current dietary habits will feature Dr. Mary D. Leakey and other authorities on the social and ecological impact of nutrition. This symposium is sponsored by the L.S.B. Leakey Foundation in cooperation with the California Academy of Sciences and U.C. Berkeley. Student tickets are \$15, general tickets \$35. To order tickets by phone call (415) 642-9988.

Are We Alone? SETI: The Search for Extraterrestrial Intelligence

February 22 9:00 a.m. - 9:00 p.m.
February 23 9:00 a.m. - 4:15 p.m.
Morrison Auditorium
California Academy of Sciences

This two day interdisciplinary symposium will discuss the search for extraterrestrial intelligence. Formal papers, panel discussions and audience participation are included in this program presenting a broad spectrum of the sciences, humanities, arts and social sciences. Speakers include Bernard Oliver, Ph.D., Chief, SETI Program, NASA Ames Research Center; Jill Tarter, Ph.D., SETI Institute and Space Sciences Laboratory, U.C. Berkeley; Buddy

Nelson, Science Journalist, KCBS Radio; and Scott Carpenter, Mercury 7 Astronaut.

This program is sponsored by the NEXA Program, San Francisco State University; Morrison Planetarium; SETI Institute; and The Astronomical Society of the Pacific. Tickets are \$17.50 for students and \$35 general. There is an optional buffet dinner and no host bar on Saturday night for an additional \$17. Please respond by February 17; registrations received after that date will be held at the door. Send a check payable to Nexa Program to the Nexa Program, San Francisco State University, 1600 Holloway Avenue, Traylor A, Lot 8, San Francisco, CA 94132. For information call (415) 469-1301.



The Worlds of a Maasai Warrior Tepilit Ole Saitoti

Wednesday, March 19 8:00 p.m.
Morrison Auditorium

Tepilit Ole Saitoti, a Maasai warrior, will share his life in two worlds in this slide/lecture. From his childhood as a goat herd near his father's kraal in Tanzania to his studies and travels in Europe and the U.S., Saitoti's life has mirrored the discoveries, tensions and ambiguities between the so-called Third World and the West. Tepilit Ole Saitoti was featured in the National Geographic film *Man of the Serengeti* and is the author of *The Worlds of a Maasai Warrior: An Autobiography*.

This lecture is co-sponsored by the California Academy of Sciences and the San Francisco Zoological Society. Tickets are \$3 for members and \$5 for non-members. To order tickets send a check payable to the California Academy of Sciences and a self-addressed, stamped envelope to Maasai, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.

Special Exhibits

The Far Side of Science continues to cause outbreaks of chuckles among visitors to the Natural History Museum. The work of cartoonist Gary Larson, who daily delights millions of readers with his wry view of the world, is featured in this exhibition of 400 original cartoons from the Far Side. The animal world and their cousins in the laboratories - scientists -are depicted in situations that are slightly askew and quite hilarious. The Far Side of Science can be seen in Hohfeld Gallery I and II through June 22.

Captured by Camera shows an underwater world that is usually seen only by a few. Playful seals, serene jellyfish and dazzling corals glow from the depths in these large color photographs. National Geographic photographer Flip Nicklin and researcher Charles Arneson of Scripps Institution of Oceanography collaborated on this beautiful exhibition of life beneath the sea. Captured by Camera can be seen through February in Lovell-White Hall.



Teddy Roosevelt visiting the Pantanal in 1914

The Pantanal: Brazil's Wetland Wilderness depicts in color photographs by Victor Banks one of South America's little known wonders. Grassy floodplains attract wildlife in such great diversity and concentration as to create one of the most extraordinary displays

of nature in the world. The Pantanal is on display in Cowell Gallery through April 6.

The Pribilof Islands lie stark and remote off the coast of Alaska. But these barren islands are host to abundant bird and marine mammal life, which has been documented by photographer Kevin Schafer. These color photographs are on display in Lower Cowell Gallery through April.

California Gold, 50 specimens from the state of California's historic gold collection, is on display in Mineral Hall. This collection tells the story of the Gold Rush with pieces from all of the major strikes in the state. The Fricot specimen is a dazzling highlight - a huge mass of crystalline gold weighing 12 pounds. California Gold will be on display through mid-March.

Traditional Arts

The Phyllis Wattis Traditional Arts Series reflects the Bay Area's exciting blend of colorful cultures and ethnic groups from around the world. Every Saturday one group shares some aspect of its cultural heritage with visitors to the Natural History Museum and Aquarium. These free programs in Wattis Hall are funded by a grant from the Paul L. and Phyllis Wattis Foundation.

Programs begin every Saturday at 1:00 p.m.

February 1 - To welcome the Chinese New Year (February 9), members of the local Jing Mo Society perform the spectacular Southern Lion Dance which dates back to the Han Dynasty. In this ceremony, the colorful and dignified lion comes alive to the beat of the drum, bringing peace and happiness.

February 8 - The Academy's current exhibition "The Far Side of Science" sets the theme for a demonstration of cartooning by Morrie Turner, creator of *Wee Pals*. Come and see the artist at work on caricatures.

February 15 - William LeRoy demonstrates the ancient maritime art of scrimshaw (etching on ivory) traditionally practiced by whalers on long voyages. Concerned with conservation, Mr. LeRoy will also discuss the use of alternative materials.

February 22 - Christa Schreiber, a native of Basle, prepares Swiss *muesli*. This nutritious dish, originally a dietary staple of country folk, was promoted as a "health food" in the late nineteenth century.

Special Events

The 2nd Annual San Francisco Antique American Indian Art Show and Sale will be held on Saturday, February 22 from noon to 9 p.m. and Sunday, February 23 from 11 a.m. to 6 p.m. at the Marin Civic Center in San Rafael. High quality artifacts from pre-1935 North, Central, and South America will be displayed and sold. The Academy publication *The Elkus Collection: Southwest Indian Art* will be on sale. This publication documents one of the world's finest collections of North American Indian artifacts from the late 19th to the mid 20th century. The catalog can be purchased at this art show or by calling Kate Ulrich at (415) 750-7116.

The San Francisco Recreation Symphony Orchestra will present a free concert in Wattis Hall on Sunday, February 23 at 2:00 p.m. Under the direction of conductor J. Karla Lemon, the orchestra will play a program of classical music that is sure to delight visitors to the museum.

The Annual Children's Dental Health Faire will be held at the Natural History Museum of the California Academy of Sciences on February 28 and March 1. The Faire will offer free oral health examinations for children. School groups are invited on Friday by prior reservation; call for space availability. On Saturday children under 12 accompanied by an adult can have a free dental examination by a qualified dentist or dental hygienist; no appointment is necessary. Continuous entertainment will feature Princess Pearl White and the sinister Peri-O-Plaque. The Faire runs from 10:00 a.m. to 4:00 p.m. each day. For information contact Jill Graham at (415) 421-4311 on Monday through Wednesday or at (415) 392-7752 on Thursday.

Young Audiences

This exciting series of professional performing arts programs for children, presented on the last Wednesday and Sunday of each month at the Natural History Museum and Aquarium, explores science and cultural anthropology through music, dance and theater. This series is made possible by a grant from McKesson Foundation, Inc. to Young Audiences of the Bay Area, a non-profit organization sponsoring art programs in local schools.

Sunday, February 23 1:00 p.m.
Wednesday, February 26* 11:00 a.m.

Eliot Fintushel creates moving and entertaining vignettes through the media of mime, masks, and stage clowning.

*Wednesday performance for school groups is by reservation only. Call (415) 495-8380 for information.

Inside the Academy

Help visitors discover the Discovery Room! Volunteers are needed for weekends in the Discovery Room. After one two-hour weekday training session you can help share the joys of this hands-on exhibit with young visitors to the museum. The time commitment is two shifts per month; the weekend shifts are 11:30 - 1:30 or 1:30 - 3:30. For information call the Volunteer Office at (415) 750-7154.

Adult Education and Travel

The Adult Education Office offers a wide variety of classes and study tours on a variety of natural history topics. For information call (415) 750-7098.

Spring in the Desert

March 23 - 29

Pre-trip meeting, March 5 7p.m.

Leader: Dr. Glenn Keator, Botanist

Cost: \$270 members, \$285 non-members, includes lodging and lunches, does not include transportation.

Spring in the desert is always a spectacular experience and one of the choicest places to view it is in the Joshua Tree National Monument. Dr. Keator will reveal the secrets of exotic desert flora including the ocotillo, cactii and "jumping cholla."

The Iridescent Fish

February 25 - March 20 (4 Tuesdays and Thursdays) 7:00 - 10:00 p.m.

Instructor: Dr. Judith Cornell

Cost: \$75 members, \$90 non-members, does not include materials

Learn to capture the extraordinary colors of nature using ordinary artist pigments. Side trips to the aquarium will offer first hand observations. No prior art training is necessary.

Photographing the Gold Country

Field Trip: February 14-17

Class: February 6 & 27 7:00 - 9:00 p.m.

Instructor: Robert Holmes

Cost: \$165 members, \$180 non-members, includes lodging, does not include transportation

National Geographic photographer and creator of the Academy exhibition *Passage Through India*, Robert Holmes will lead this photographic expedition of the landscapes, historic buildings and mines of Gold Rush California. Accommodations are at the famous National Hotel in Nevada City.

Academy Expeditions

Plan your 1986 travels now. There are diverse destinations with adventure and education for every traveler. For information call the Academy Travel Office at (415) 750-7222.



California Academy of Sciences' 1985 Grand Canyon Whitewater Expedition

There are still a few places left on these popular trips to the Grand Canyon. Choose the trip that best suits your schedule and energy level.

WILDERNESS GRAND CANYON

April 6-11

This expedition provides members the opportunity to visit seldom-seen portions of the Grand Canyon on a five day river raft and hiking adventure. Starting at Pierce Ferry, enter the Grand Canyon through the dramatic gates of the Grand Wash Cliffs, moving up the river to Separation Canyon by motorized rafts, then floating down by oar power. Short day hikes into pristine areas such as Columbine Falls, Indian Caves and Gneiss Canyons are supplemented with informal lectures on the geology, archaeology, and history of the canyon. Led by Geologist Jean De Mouthe, this tour is for those who wish a more vigorous travel experience. Cost is \$545 plus round trip air from San Francisco to Las Vegas.

GRAND CANYON WHITEWATER EXPEDITION

August 17-31

A superb wilderness experience that will take participants from Lee's Ferry (Mile Zero of the Canyon) to Whitemore Wash near Lake Mead. This special tour is made in dories - decked, compartmented, unsinkable rowboats that measure 17' by 7'. Each dory is captained by a professional guide and carries four participants - an ideal way to experience the thrill of some of the greatest river rapids in the world. Time actually spent floating is less than four hours per day. Numerous half-day and all day side trips highlight exploration of the Canyon: Upper Elves Chasm, Royal Arch Creek, Monument Creek, Stone Creek, Thunder River, Havasu Creek and more. Cost is \$1396 plus air fare to Las Vegas. This trip is recommended for those who have camping experience and are in excellent physical condition.

Other 1986 Expeditions include:

HALLEY'S COMET AND GAMEWATCHING IN NAMIBIA AND BOTSWANA

April 4 - 21

\$3298 land and \$1587 air from New York

ARIZONA IN THE SPRING: The Sonoran Desert and the Chiricahuas

April 12 - 20

\$1290 plus \$170 air fare

ANTIQUITIES AND TALL SHIPS: A cruise through the Mediterrean

May 24 - June 8

\$4945 to \$8445 including air fare

KENYA ADVENTURE SAFARI

June 4 - 18

\$1745 land plus \$1400 air fare

A NATURALIST'S AUSTRALIA

August 14 - September 7

\$3100 land plus \$1816 air fare

ALASKAN ODYSSEY CRUISE

August 30 - September 11

\$2810 - \$3990 cruise plus air fare

AMERICA'S OWN: Chesapeake Bay and the Smithsonian

September 30 - October 15

\$2400 - \$2542 plus \$298 air fare

JUNGLE RIVERS OF SOUTH AMERICA: The Orinoco and the Amazon

September 30 - October 15

\$3990 to \$8690 plus \$1220 air fare

A WILDLIFE SAFARI TO INDIA AND NEPAL

October 28 - November 20

\$3452 plus \$1805 air fare

ARCHAEOLOGICAL ADVENTURE: El Tajin, Central Mexico and Oaxaca

November 2 - 17

\$1790 plus \$390 air fare

The Month At A Glance

FEBRUARY

- 1 Traditional Arts - **Chinese Lion Dance**
- 8 Traditional Arts - **cartooning**
- 9 **Human Evolution and Diet** symposium
- 12 Members' Meeting
- 13 Members' Meeting
- 15 Traditional Arts - **scrimshaw**
- 15 **Dr. Carl Sagan** lecture
- 18 Planetarium concert - **Slavyanka**
- 22 Traditional Arts - **Swiss muesli**
- 22 **Are We Alone?** symposium
- 23 **Are We Alone?** symposium
- 23 Young Audiences - **mime**
- 23 S.F. Recreation Symphony Orchestra
- 28 Childrens' Dental Faire

March

- 1 Childrens' Dental Faire

February Members' Meeting

Dates & Times

Matinee, 2:00 p.m., Wednesday,
February 12
Evenings, 8:00 p.m., Wednesday and
Thursday, February 12 and 13

Place

Morrison Auditorium

Speaker

Dr. Luis Baptista

Subject

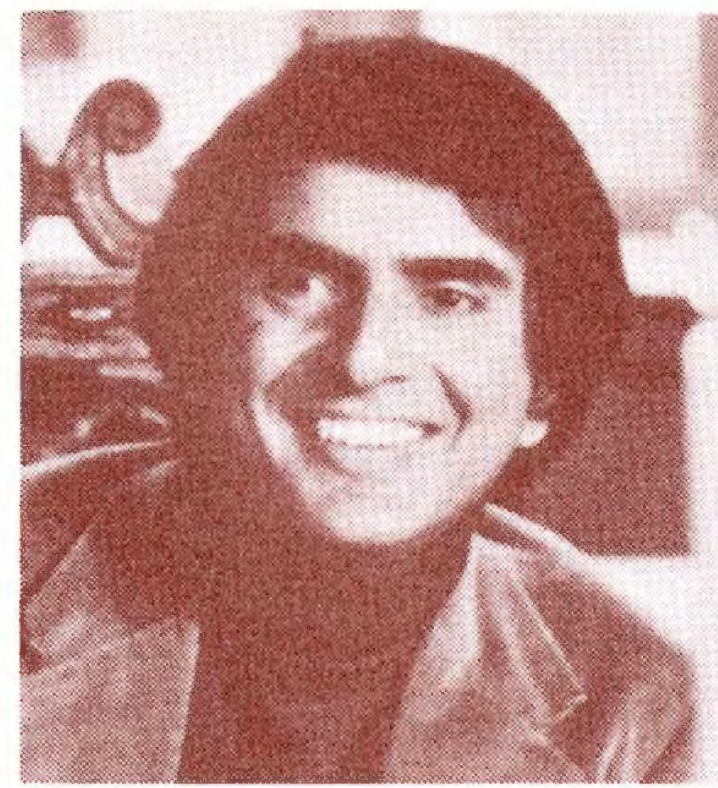
A Naturalist Visits Papua New Guinea



Papua New Guinea basks like a crocodile in the China Sea, trailing clusters of islands and atolls. Geographically isolated and diverse in habitat, the islands harbour dramatically different cultures in all stages of development. Dr. Luis Baptista, Chairman of the Academy's Ornithology and Mammalogy Department and world-renowned authority on bird songs, will recount his recent visit to this intriguing area. In his entertaining and unique lecture style, Dr. Baptista will share his encounters with the human and animal life in the Trobriand Islands, along the Sepik River and in the New Guinea highlands.

Sneak Preview: March 12 and 13, Bill Ratcliffe will share highlights from his 25 years as a nature photographer.

The California Academy of Sciences presents The Claire Matzger Lilienthal Distinguished Lecture



**Halley's Comet:
On the Eve
Of Encounter**

Dr. Carl Sagan

**Saturday, February 15 8:00 p.m.
Masonic Auditorium
1111 California Street, San Francisco**

Dr. Carl Sagan has brought the principles and visions of astronomy to life for people around the globe. Author of the Pulitzer Prize-winning best seller *Dragons of Eden* and host of the public television series *Cosmos*, Dr. Sagan has presented to millions the most recent findings on the origins of the universe. Moreover, he has philosophically asked what role we, inhabitants of one small planet in a very small galaxy, will play in the future of that universe. Join Dr. Carl Sagan for this very special look at our place in the cosmos.

Tickets are available on a first come, first serve basis. To order tickets, please send this form with a check made payable to the California Academy of Sciences and a self-addressed, stamped envelope to: Lilienthal Lecture Series, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.

No telephone orders can be accepted.

Name _____

Address _____

City and Zip _____

Daytime phone _____

Member's tickets at \$4 each _____

Non-member's tickets at \$5 each _____

Total amount enclosed _____

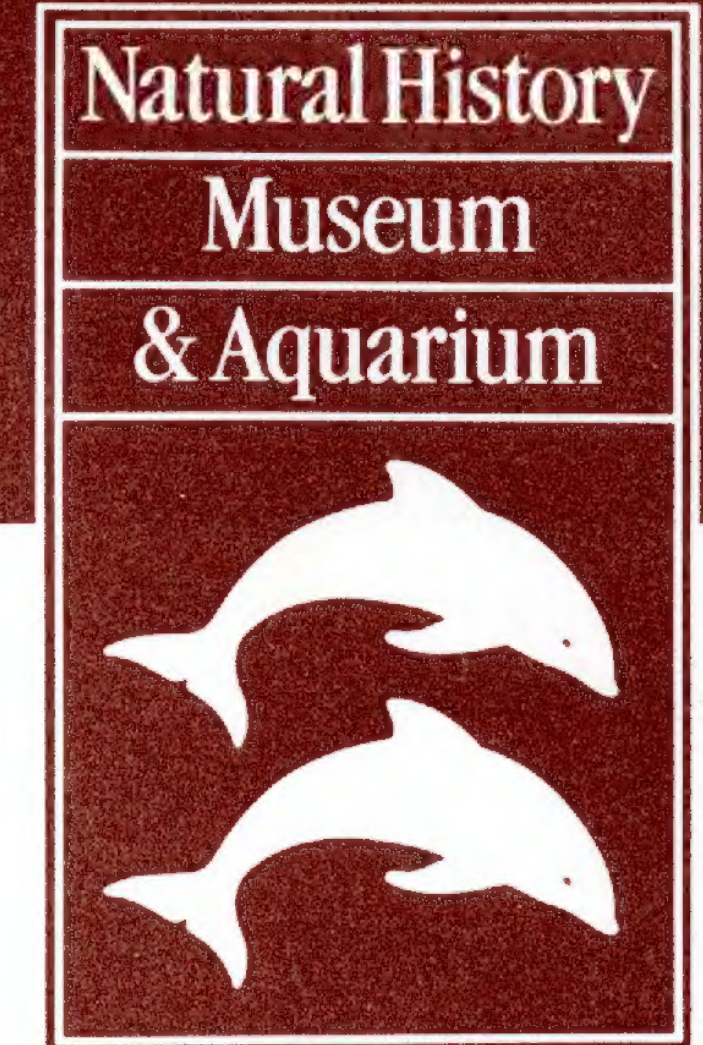
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California Academy of Sciences



NEWSLETTER

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